

XII. *A Letter from John Huxham M. D.*  
*F. R. S. to C. Mortimer M. D. Secr. R.S.*  
*containing Observations on the Northern*  
*Lights, seen Feb. 15 and 16, 1749-50.*

Dear Sir,

Read June 21, 1750. **Y**OU have herewith an Account of  
 two uncommon *Phænomena*, which  
 I observed last February.

Feb. 15, 1749-50, in the Evening there was a very  
 vivid Northern Light, which darted forth several  
 beautiful, crimson, and fiery-colour'd Rays; Wind  
 NW by N 1, Barometer 30.2; 50 Minutes past 8 a  
 surprisingly bright and exceedingly white Arch, about  
 the Breadth of a common Rainbow, appear'd in  
 the Heavens, extending nearly from East to West;  
 it reach'd within 5 or 6 Degrees of the Western  
 Horizon, and ended about 8 or 10 above the Eastern.  
 It pass'd exactly between *Castor* and *Pollux*, and  
 directly over *Aldebaran*, which appeared plainly thro'  
 it. Near the Top of the Arch several very lucid,  
 white, short, vibrating Columns were attached to  
 it; none of them seem'd above 6 or 7 Degrees long,  
 and did not appear to communicate in the least  
 with the *Aurora borealis*. The inclosed Figure (see  
 TAB. I. Fig. 5.) somewhat represents it. About 9<sup>h</sup>  
 12<sup>m</sup> the Arch vanish'd; but several white, bright, cor-  
 ruscat'g *Nubeculae* remain'd here and there in the  
 Zodiac for 12 or 15 Minutes longer. The *Aurora*  
*borealis* continued more or less till Midnight: The  
 next Morning the Wind was E. 1<sup>o</sup>, Barom. 30.1.

Feb.

Feb. 16, about 7 p.m. we had another *Aurora borealis*, tho' not quite so fiery and luminous as that of the Night before: It continued till near 11. At 8<sup>h</sup> 56' p.m. exactly, such another Arch appear'd, very nearly of the same Extent and Direction, but not altogether so broad or lucid. This at first also pass'd between the two bright Stars of *Gemini*, but declin'd more and more to the Southward, till it was 2 or 3 Degrees to the South of *Pollux*. Its Western Limb, about 9, pass'd through the North Shoulder of *Orion*: It quite disappear'd about 10 or 12 Minutes after. — This had no Columns attach'd to it, as the former; tho' it was somewhat jagged and unequal towards the North near the *Vertex*. The Wind this Evening was E.2; the Barometer 29.9. The next Morning the Wind was SWbW 1, the Barometer 29.9. Neither any Part of the Arch, or the attached Rays were coloured, but perfectly white, and exceeding bright.

I am, dear Sir, with the greatest Respect,

*Plymouth, April 18,*    *Your affectionate, and*  
*1750.*                    *most obedient humble Servant,*

J. Huxham.

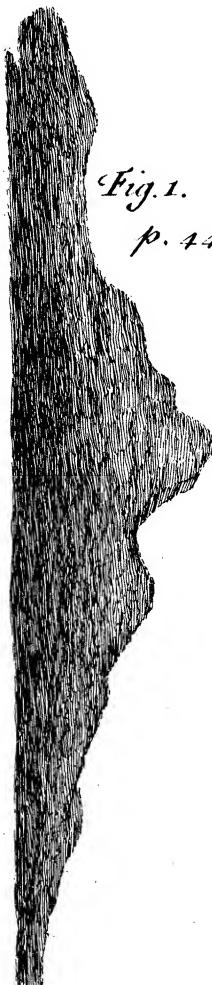


Fig. 1.  
p. 443.

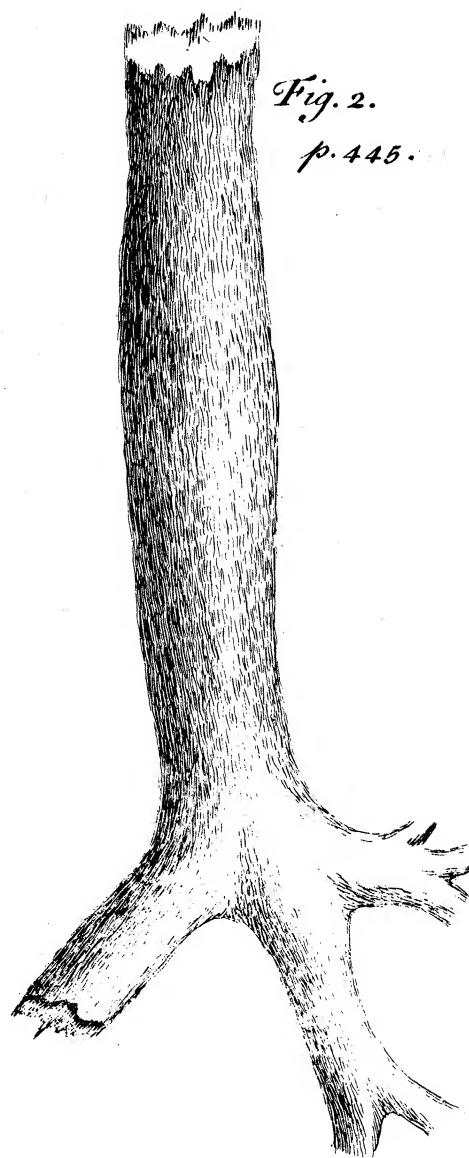


Fig. 2.  
p. 445.



Fig. 5.  
p. 472.



Fig. 3.  
p. 456.

E CIMELIO RE



Fig. 4.  
p. 458.

*Philos. Trans.* N<sup>o</sup> 495. TAB. I.

